

What is claimed is:

1. A mechanical lift system that is designed to open and close a vehicle canopy from its side position by means of hinges and a power lift arm.
2. The invention, as claimed in Claim 1, includes the securing of one side of a vehicle canopy to the upper side of the vehicle bed by means of a continuous hinge or a series of two or more hinges allowing the canopy to open 90 degrees and close to its original position.
3. The invention as claimed in Claim 1, is a mechanical lift system comprising:

a base plate which is secured to the inside bed of a vehicle usually but not exclusively to the upper portion of the wheel well;

an upright arm connected to the base plate and secured to the inside portion of the upper rim of the vehicle bed;

a lift arm which is pivotally connected to the upright arm, and follows with other pivotal connections the inside contour of the vehicle canopy to the canopies opposite inside base.

4. the invention as claimed in Claim 1, has an enclosed heavy duty screw actuator power unit comprised of:

a screw jack telescoping piston which connects to the lift arm via an in line-clevis with its base housing connected to the base plate with an in-line base clevis;

a 12 volt direct current motor, driving a gear reduction system attached to the encased screw jack piston which lifts and lowers the canopy on demand;

a ball screw actuator with a double brake to hold secure any position during the lifting or closing process;

a reverse polarity rocker toggle switch adapted to control the safe operation of the motor.

5. The invention as claimed in Claim 1, may have an optional power lift arm comprised of:

a hydraulic jack cylinder piston that connects to the lift arm via an in-line clevis with its base housing connected to the base plate with an in-line base clevis;

a hydraulic pump with lines connected to the cylinder

a hydraulic control valve connected to the lines to control the piston movement